

## MEMORANDUM

**TO:** John Mitnik, Assistant Executive Director

**THROUGH:** Peter Kwiatkowski, Section Administrator, Resource Evaluation

**FROM:** SFWMD Staff Water Supply Advisory Team

**DATE:** October 6<sup>th</sup>, 2020

**SUBJECT:** Water Supply Report

### **District-wide Conditions**

Surface and groundwater levels generally increased throughout the District over the last week. The majority of the United States Geological Survey (USGS) real-time wells in the Kissimmee Basin (KB) within the District boundaries are at median levels and higher for this time of year. The wells in the northern portion of the KB are completed in the Floridan aquifer and the wells in southern KB are completed in the surficial aquifer system. The majority of the surface and groundwater stations throughout the KB recorded increases in water levels over the last week.

Stages in the Upper East Coast (UEC) canals C-23, C-24, and C-25 are 21.67, 18.59, and 18.19 feet, all above the fourteen feet agricultural cut-off. About eighty percent of the surficial aquifer stations are in their upper percentile ranges, with the remainder at median levels. Surface and groundwater levels increased in over half of the Lower East Coast (LEC) stations over the past week. Approximately ninety-five percent of Biscayne aquifer wells are at median levels and the upper percentile ranges, with the remainder in the lower percentile ranges for this time of year.

Groundwater levels increased in most of the Lower West Coast (LWC) stations over the last seven days. About sixty percent of the Surficial aquifer wells are in their upper percentile ranges for this time of year, with the remainder at median levels. Approximately half percent of the Lower Tamiami aquifer wells are at median levels, with the remainder in the upper percentile ranges. Three quarters of Sandstone aquifer monitor wells are at median levels, with the remainder in their upper percentile ranges for this time of year. Approximately fifty percent of the Mid-Hawthorn aquifer monitor wells are in the lower percentile ranges, with the remainder at median levels and higher. **Figure 1** summarizes current conditions.

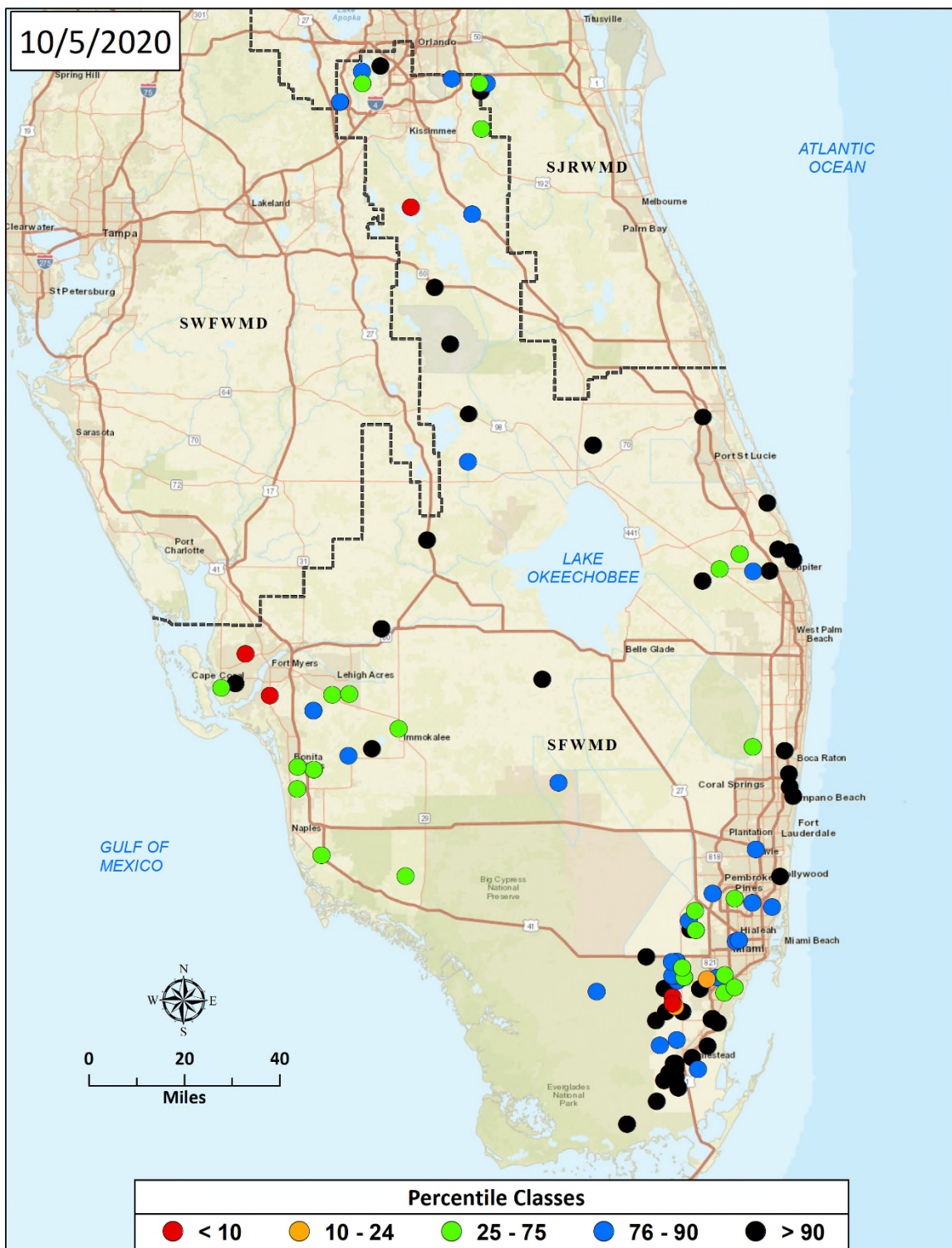


Figure 1. Real-Time Groundwater Level Map

## **Water Supply Technical Input to LORS2008**

The Palmer Index for Lake Okeechobee (LOK) Tributary Conditions is – 1.17 classified as “dry,” and is in the “moderate” risk category for water supply. The LOK stage for the next two months is projected to be in the Low Sub Band, and the risk to water supply is categorized as “low.” The Climate Prediction Center’s (CPC) Precipitation Outlook is projected as “above normal” for one month and “normal” for three months, leaving both the one-month outlook and three-month outlook in the “low” risk category. The LOK Seasonal Net Inflow Forecast is in the “dry” category and is in the “moderate” risk category. The Multi-Seasonal Net Inflow Forecast is in the “dry” range with “high” risk to water supply. The stages in WCA 1, WCA 2A and WCA 3A are all above line 1 and are in the “low” risk category. Year-Round Irrigation Rule is in effect for the LEC Service Areas. All Service Areas are in the “low” risk category for water supply. **Figure 2** summarizes the water supply risk indicators.

### **LORS2008 Implementation on 10/05/2020 (ENSO Condition- La Nina):**

**Status for week ending 10/5/2020:**

#### **Water Supply Risk Evaluation**

<b>Area</b>	<b>Indicator</b>	<b>Value</b>	<b>Color Coded Scoring Scheme</b>
<b>LOK</b>	Projected LOK Stage for the next two months	Low Sub-band	L
	Palmer Drought Index for LOK Tributary Conditions	-1.17 (Dry)	M
	CPC Precipitation Outlook	1 month: Above Normal	L
		3 months: Normal	L
	LOK Seasonal Net Inflow Outlook	0.76 ft	M
	ENSO Forecast (positive)	Dry	
	LOK Multi-Seasonal Net Inflow Outlook	0.64 ft	H
	ENSO Forecast (positive)	Dry	
<b>WCAs</b>	WCA 1: 3 Station Average (Site 1-7, 1-8T and 1-9)	Above Line 1 (17.51 ft)	L
	WCA 2A: Site 2-17	Above Line 1 (13.59 ft)	L
	WCA-3A: 3 Station Average (Site 63, 64 and 65)	Above Line 1 (10.89 ft)	L
<b>LEC</b>	Service Area 1	Year-Round Irrigation Rule in effect	L
	Service Area 2	Year-Round Irrigation Rule in effect	L
	Service Area 3	Year-Round Irrigation Rule in effect	L

Note: The water supply risk classification based on the Palmer index, as well as the LOK seasonal and multi-seasonal net inflow outlooks use slightly different classification intervals than those used by the 2008-LORS.

**Figure 2. Water Supply Risk Indicators**